PROJECT DESCRIPTION THIS PROJECT INVOLVES THE MODIFICATION OF AN EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF NURSERY ROAD AND SOUTHBOUND MD 295 OFF-RAMP IN ANNE ARUNDEL COUNTY. NURSERY ROAD IS ASSUMED TO RUN IN A NORTH-SOUTH DIRECTION. INTERSECTION OPERATION THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR PHASE, FULL—TRAFFIC—ACTUATED MODE WITH NURSERY ROAD THROUGH MOVEMENTS OPERATING CONCURRENTLY AND THE S.B. MD 295 OFF-RAMP APPROACH OPERATING ALONE. AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR N.B. NURSERY ROAD EXIST. CONTROLLER REQUIREMENTS A FULL-TRAFFIC-ACTUATED, FOUR-PHASE CONTROLLER EXISTS, INSTALL ONE 4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER IN THE EXISTING BASE MOUNTED CABINET. WIRING DIAGRAM ___E,F,EC G.H.E

___C.EC __A,B,C,D,E,F,EC A,B,C,D,E,F,EC WIRING KEY A-B MICRO-LOOP PROBE C-D 2-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) ALUMINUM SHIELDED E-F EXISTING 7-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) G-H EXISTING 5-CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.) EC EXISTING CABLE ML MICRO-LOOP PROBE LW LOOP WIRE (NO. 14 A.W.G.)

EQUIPMENT LIST "A"		
A. APPROVED SHA EQUIPMENT TO BE PURCHASED BY THE DEVELOPER AND INSTALLED BY THE CONTRACTOR. ALL EQUIPMENT IN THIS LIST SHALL HAVE CATALOG CUTS SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION.		
ITEM NO. QUANTITY DESCRIPTION		
NONE		
CONTACT PERSONS FOR DISTRICT 5 ARE AS FOLLOWS:		
MR. CHARLES GEORGE ASSISTANT DISTRICT ENGINEER — TRAFFIC ASSISTANT DISTRICT ENGINEER — MAINTENANCE (410) 841-1003 (410) 841-1005		

PHASING WILL NOT CHANGE

CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS (410) 787-7630

(410) 841-1005

ASSISTANT DISTRICT ENGINEER - UTILITIES

MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS (410) 787-7631

MR. ED RODENHIZER TEAM LEADER SIGNAL OPERATIONS (410) 787-7652

MR. EUGENE BAILEY TEAM LEADER SIGN OPERATIONS

MS. DARLENE EIDE SUPPLY OFFICE SIGNAL SHOP WAREHOUSE (410) 787-7668

(410) 787-7676

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO OOTS FOR APPROVAL PRIOR TO INSTALLATION.

SIGNALIZATION

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EA	MAINTENANCE OF TRAFFIC
8004	1 EA	ADJUST EXISTING HANDHOLE TO GRADE INCLUDING COLLA
8009	12 EA	FURNISH AND INSTALL 12 IN. OPTICALLY PROGRAMMED SIGNAL HEAD SECTION
8044	2 EA	FURNISH AND INSTALL NON-EVASIVE PROBE 500 FT. LEAD-IN
8048	LS	REMOVE AND DISPOSE OF EXISTING EQUIPMENT
8052	45 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT — BORED
8068	25 LF	FURNISH AND INSTALL 1 IN. LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT FOR DETECTOR WIRE SLEEVE
8072	2 EA	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8081	130 LF	FURNISH AND INSTALL ELECTRICAL CABLE 2-CONDUCTOR (ALUMINUM SHIELDED)
8087	875 LF	FURNISH AND INSTALL LOOP WIRE ENCASED IN FLEXIBLE TUBING (NO. 14 A.W.G.)
8088	290 LF	FURNISH AND INSTALL SAW CUT FOR SIGNAL LOOP DETECTOR
8091	100 LF	FURNISH AND INSTALL 2 IN. SCHEDULE 80 RIGID ELECTRICAL PVC CONDUIT — TRENCHED
	1 EA	FURNISH AND INSTALL 4-CHANNEL TIME-DELAY-OUTPUT LOOP DETECTOR AMPLIFIER
	1 EA	RELOCATE EXISTING SIGN
	1 EA	FURNISH AND INSTALL R3-5(R) SIGN

LIGHTING

1 EA

ITEM NO.	QUANTITY	DESCRIPTION
	5 CY	FURNISH AND INSTALL CONCRETE FOR LIGHTING FOUNDATION
	1260 LF	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
	2 EA	FURNISH AND INSTALL ELECTRIC MANHOLE
	980 LF	FURNISH AND INSTALL 4-CONDUCTOR (NO. 2 A.W.G.) DUCT CABLE
	290 LF	FURNISH AND INSTALL 2-CONDUCTOR (NO. 2 A.W.G.) DUCT CABLE
	5 EA	FURNISH AND INSTALL GROUND ROD — 3/4"×10' LENGTH
	100 LF	FURNISH AND INSTALL 4 IN. SCHEDULE 80 RIGID PVC CONDUIT (BORED)
	2 EA	RELOCATE EXISTING STREET LIGHT STRUCTURE
	2 EA	REMOVE EXISTING ELECTRIC MANHOLE
	6 EA	FURNISH AND INSTALL TYPE I CONNECTOR KIT
	6 EA	FURNISH AND INSTALL TYPE III CONNECTOR KIT
	8 EA	FURNISH AND INSTALL TYPE IV CONNECTOR KIT
	10 EA	FURNISH AND INSTALL TYPE II CONNECTOR KIT

(30" X 36") MAST ARM MOUNT

(30" X 36") MAST ARM MOUNT

FURNISH AND INSTALL R3-6(L) SIGN

EQUIPMENT LIST "C"

C. EXISTING EQUIPMENT TO BE REMOVED BY THE CONTRACTOR AND DELIVERED TO THE STATE HIGHWAY ADMINISTRATION, 7491 CONNELLEY DRIVE, HANDVER, MARYLAND 21076. THE CONTRACTOR SHALL NOTIFY THE SHA AT (410) 787-7652 AT LEAST THREE DAYS IN ADVANCE OF DELIVERY.

ITEM NO. NONE

QUANTITY

DESCRIPTION

ALL OTHER SHALL BECOME THE PROPERTY OF THE CONTRACTOR

TRAFFIC CONCEPTS, INC.

325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101

Office of Traffic & Safety Office of Traffic & Safety TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION NURSERY ROAD AT S.B. I-295 RAMP

DRAWN BY: M.HOWELL CHECKED BY: T.ZAYDEL & 1/62 S.H.A. NO. 1" = 20' SCALE: 9-6-02 DATE:

TS NO. 2177B F.A.P. NO. SHEET NO. COUNTY: ANNE ARUNDEL T.I.M.S. NO. LOG MILE: 02029514.76 F308

Date updated: 11/08/02